

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/050827

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D21H25/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 676 182 A (SMITH RICHARD DANIEL) 11 July 1972 (1972-07-11) claims 1-46	1-7, 9, 15-19
X	EP 0 273 902 A (OESTERREICH REPUBLIK) 6 July 1988 (1988-07-06) claims 1-12	1-3
X	EP 1 069 237 A (TURKOVIC DAMIR) 17 January 2001 (2001-01-17) paragraphs '0008!', '0009!', '0012!; claim 1	1-3
X	US 4 860 685 A (SMITH RICHARD D) 29 August 1989 (1989-08-29) claims 1-13; example 5	1
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*g\* document member of the same patent family

Date of the actual completion of the international search

23 June 2005

Date of mailing of the international search report

01/07/2005

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl  
Fax (+31-70) 340-3016

Authorized officer

Karlsson, L

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/050827

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 120 500 A (EGGERSDORFER ROLF ET AL) 9 June 1992 (1992-06-09) the whole document	1-19
A	US 4 522 843 A (KUNDROT ROBERT A) 11 June 1985 (1985-06-11) the whole document	1-19
A	US 3 702 779 A (KRASKE KARL V ET AL) 14 November 1972 (1972-11-14) the whole document	1-19
A	WO 03/060234 A (SCHETTINO CLAUDIUS VINICIUS ; DEI LUIGI (IT); BAGLIONI PIERO (IT); GIO) 24 July 2003 (2003-07-24) the whole document	1-19
A	CA 2 142 195 A (WORSFOLD D JAMES) 9 August 1996 (1996-08-09) the whole document	1-19

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050827

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3676182	A	11-07-1972	NONE	
EP 0273902	A	06-07-1988	AT 391721 B AT 345986 A EP 0273902 A2	26-11-1990 15-05-1990 06-07-1988
EP 1069237	A	17-01-2001	EP 1069237 A1	17-01-2001
US 4860685	A	29-08-1989	AU 583938 B2 AU 6140186 A CA 1272018 A1 EP 0230455 A1 JP 63500110 T WO 8700217 A1	11-05-1989 30-01-1987 31-07-1990 05-08-1987 14-01-1988 15-01-1987
US 5120500	A	09-06-1992	DE 3904111 A1 AT 104385 T CA 2009621 A1 DE 59005307 D1 EP 0386436 A2	16-08-1990 15-04-1994 11-08-1990 19-05-1994 12-09-1990
US 4522843	A	11-06-1985	CA 1235555 A1 FR 2578198 A1 GB 2171122 A , B	26-04-1988 05-09-1986 20-08-1986
US 3702779	A	14-11-1972	DE 1938162 A1 FR 2014098 A5 GB 1271281 A CA 938175 A1	05-02-1970 10-04-1970 19-04-1972 11-12-1973
WO 03060234	A	24-07-2003	WO 03060234 A1 AU 2002246036 A1 CA 2473407 A1 EP 1468143 A1 US 2005042380 A1	24-07-2003 30-07-2003 24-07-2003 20-10-2004 24-02-2005
CA 2142195	A	09-08-1996	CA 2142195 A1	09-08-1996